

Chromosome 1q21

*D1S1677**APOA2**JAM1* **USF1** 0.2 Mb*LOC257406* *B4GALT3* *ATF6**LOC257406* *ATP1A2* *PXF* *SLAMF**GBA* *FY* *KCNJ9* *PEA15* *COPA* *ITLN2**LOC257406* *FCERT1G* *RGS5**ALDH9**LMX1A*

Genotyped SNPs

JAM1 ← 42 751 bp*jam1s1**jam1s2**jam1s3**jam1s4**jam1s5**jam1s6**jam1s7**jam1s8**jam1s9**jam1s10**jam1s11**jam1s12**jam1s13**jam1s14**jam1s15**jam1s16**jam1s17**jam1s18*

Peak linkage

USF1 ← 5687 bp*USF1* ← 5687 bp*usf1s1**usf1s2**usf1s3**usf1s4**usf1s5**usf1s6**usf1s7**usf1s8**usf1s9**usf1s10**usf1s11**usf1s12**usf1s13**usf1s14**usf1s15**usf1s16**usf1s17**usf1s18**usf1s19**usf1s20**usf1s21**usf1s22**usf1s23**usf1s24**usf1s25**usf1s26**usf1s27**usf1s28**usf1s29**usf1s30**usf1s31**usf1s32**usf1s33**usf1s34**usf1s35**usf1s36**usf1s37**usf1s38**usf1s39**usf1s40**usf1s41**usf1s42**usf1s43**usf1s44**usf1s45**usf1s46**usf1s47**usf1s48**usf1s49**usf1s50**usf1s51**usf1s52**usf1s53**usf1s54**usf1s55**usf1s56**usf1s57**usf1s58**usf1s59**usf1s60**usf1s61**usf1s62**usf1s63**usf1s64**usf1s65**usf1s66**usf1s67**usf1s68**usf1s69**usf1s70**usf1s71**usf1s72**usf1s73**usf1s74**usf1s75**usf1s76**usf1s77**usf1s78**usf1s79**usf1s80**usf1s81**usf1s82**usf1s83**usf1s84**usf1s85**usf1s86**usf1s87**usf1s88**usf1s89**usf1s90**usf1s91**usf1s92**usf1s93**usf1s94**usf1s95**usf1s96**usf1s97**usf1s98**usf1s99**usf1s100**usf1s101**usf1s102**usf1s103**usf1s104**usf1s105**usf1s106**usf1s107**usf1s108**usf1s109**usf1s110**usf1s111**usf1s112**usf1s113**usf1s114**usf1s115**usf1s116**usf1s117**usf1s118**usf1s119**usf1s120**usf1s121**usf1s122**usf1s123**usf1s124**usf1s125**usf1s126**usf1s127**usf1s128**usf1s129**usf1s130**usf1s131**usf1s132**usf1s133**usf1s134**usf1s135**usf1s136**usf1s137**usf1s138**usf1s139**usf1s140**usf1s141**usf1s142**usf1s143**usf1s144**usf1s145**usf1s146**usf1s147**usf1s148**usf1s149**usf1s150**usf1s151**usf1s152**usf1s153**usf1s154**usf1s155**usf1s156**usf1s157**usf1s158**usf1s159**usf1s160**usf1s161**usf1s162**usf1s163**usf1s164**usf1s165**usf1s166**usf1s167**usf1s168**usf1s169**usf1s170**usf1s171**usf1s172**usf1s173**usf1s174**usf1s175**usf1s176**usf1s177**usf1s178**usf1s179**usf1s180**usf1s181**usf1s182**usf1s183**usf1s184**usf1s185**usf1s186**usf1s187**usf1s188**usf1s189**usf1s190**usf1s191**usf1s192**usf1s193**usf1s194**usf1s195**usf1s196**usf1s197**usf1s198**usf1s199**usf1s200**usf1s201**usf1s202**usf1s203**usf1s204**usf1s205**usf1s206**usf1s207**usf1s208**usf1s209**usf1s210**usf1s211**usf1s212**usf1s213**usf1s214**usf1s215**usf1s216**usf1s217**usf1s218**usf1s219**usf1s220**usf1s221**usf1s222**usf1s223**usf1s224**usf1s225**usf1s226**usf1s227**usf1s228**usf1s229**usf1s230*

Up-regulated genes

Down-regulated genes

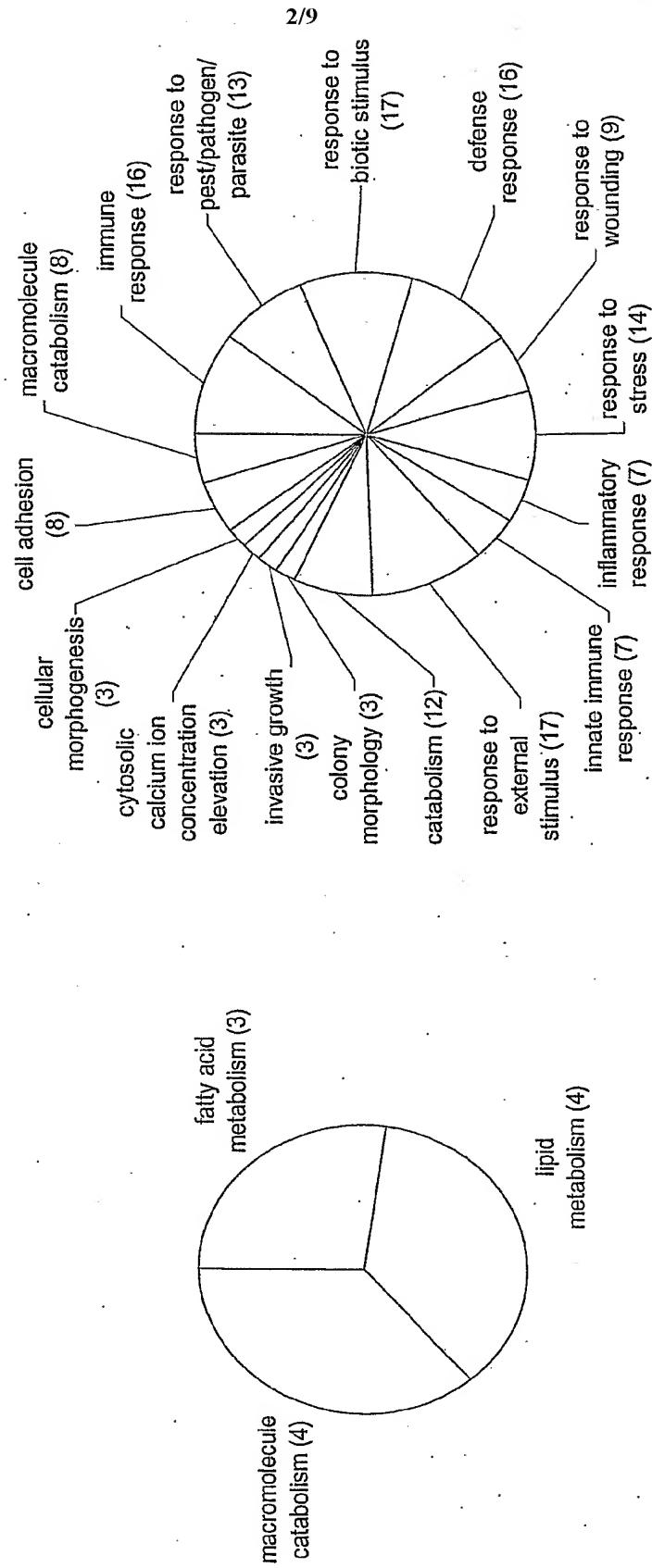
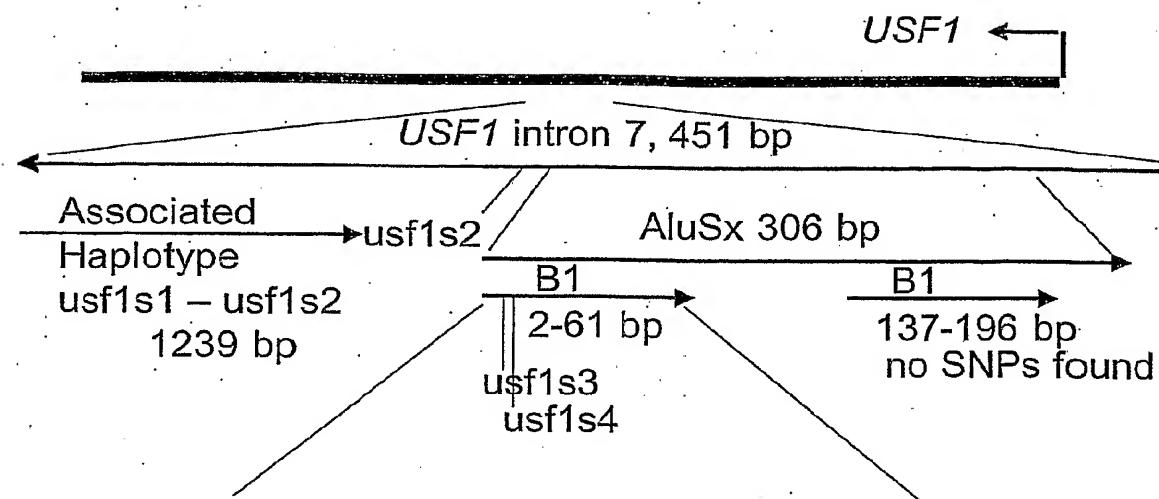


Figure 2



A total 91 human genes have this 60 bp sequence, similar to the mouse B1 repeat, as a part of AluSx on the coding strand (43 genes) or on the opposite strand (48 genes)

Figure 3a

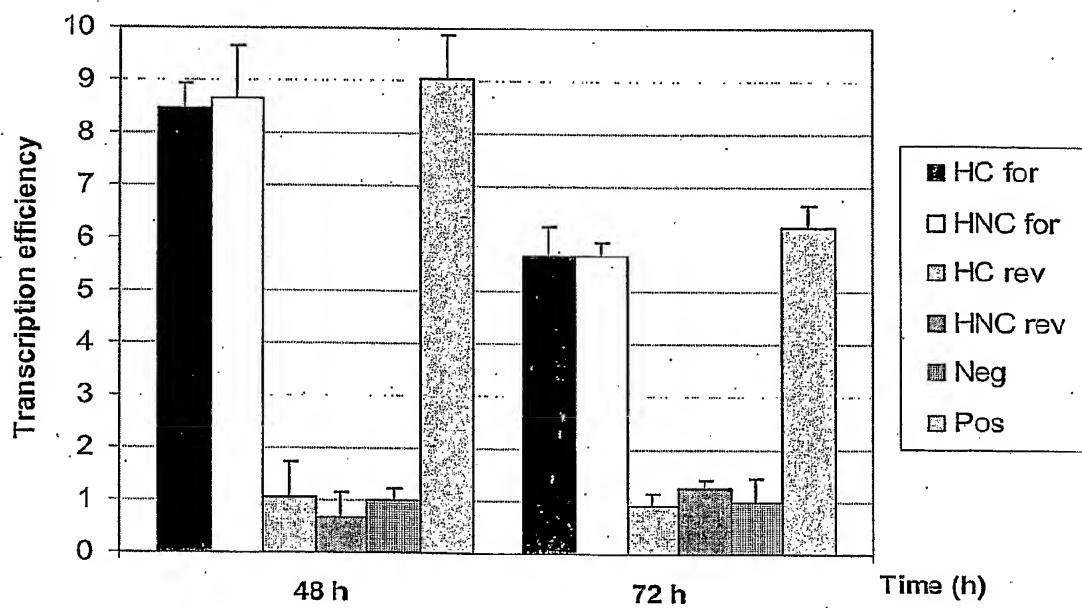


Figure 3b

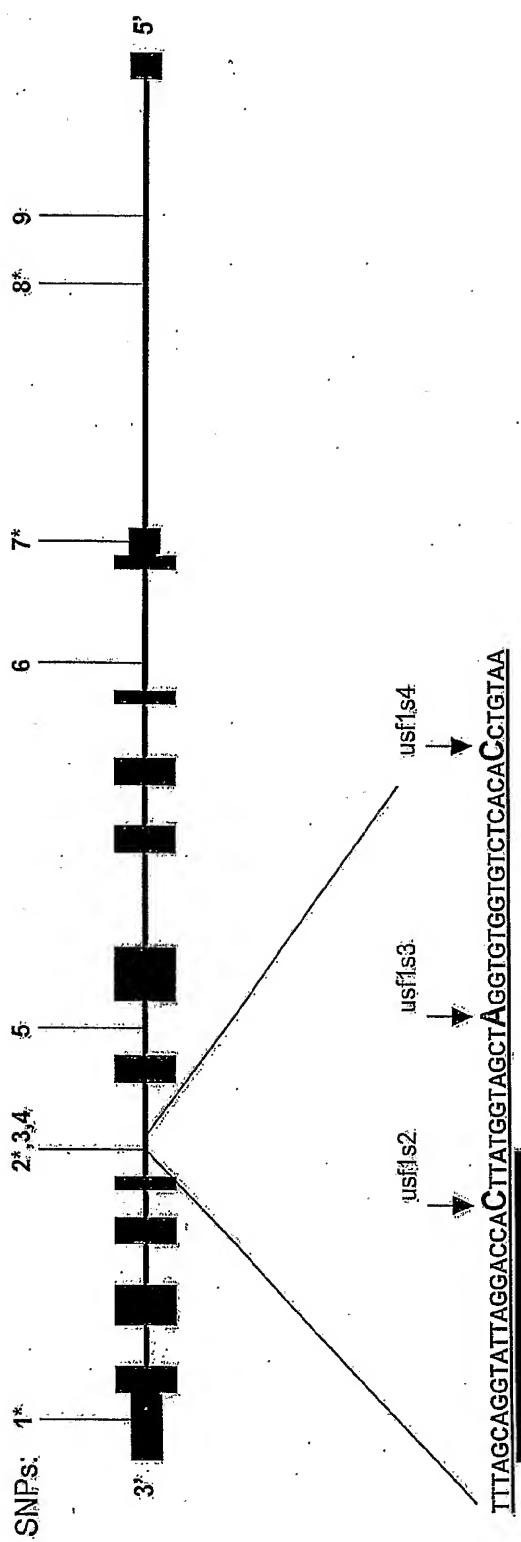


Figure 4a

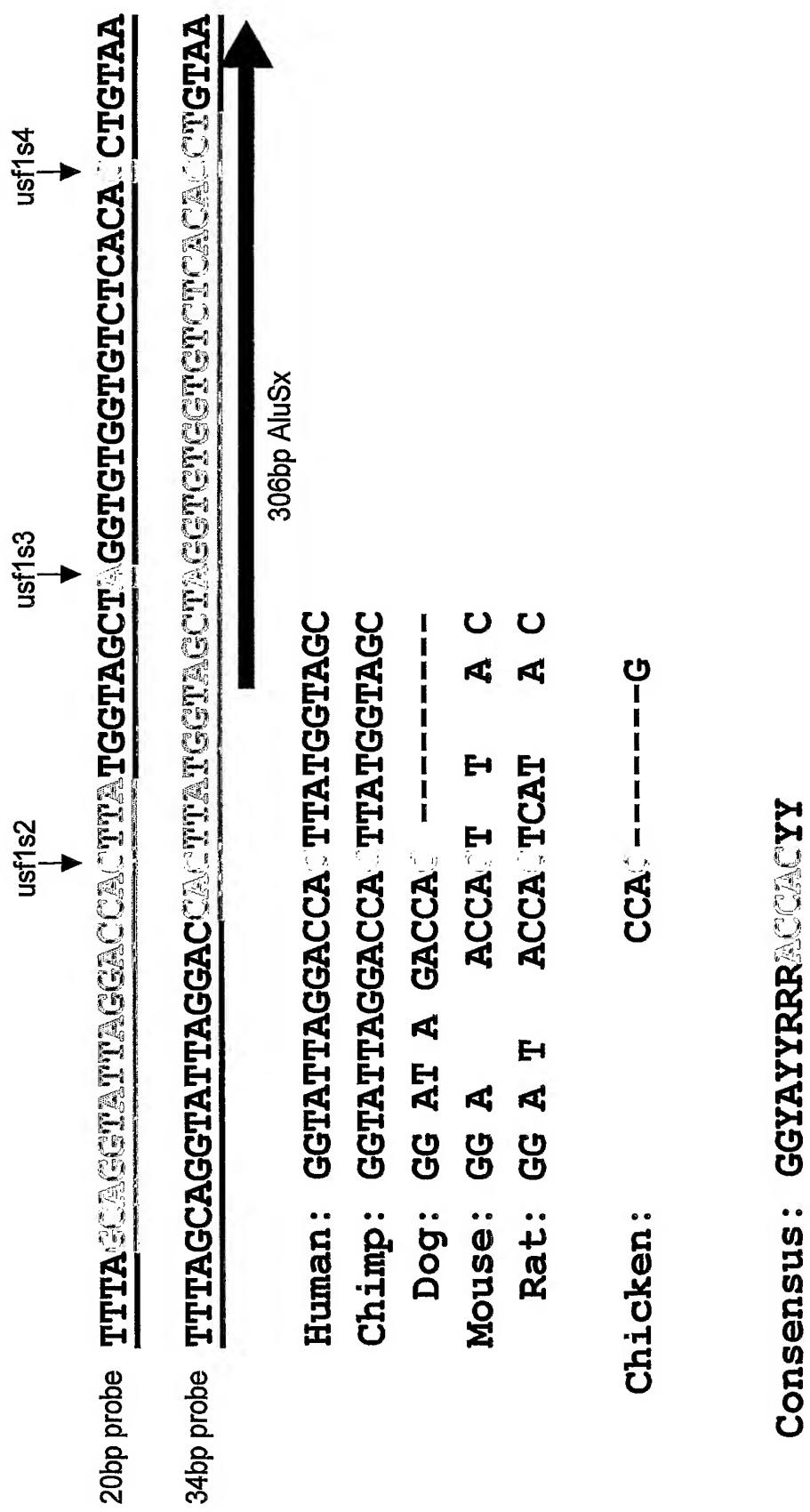


Figure 4b

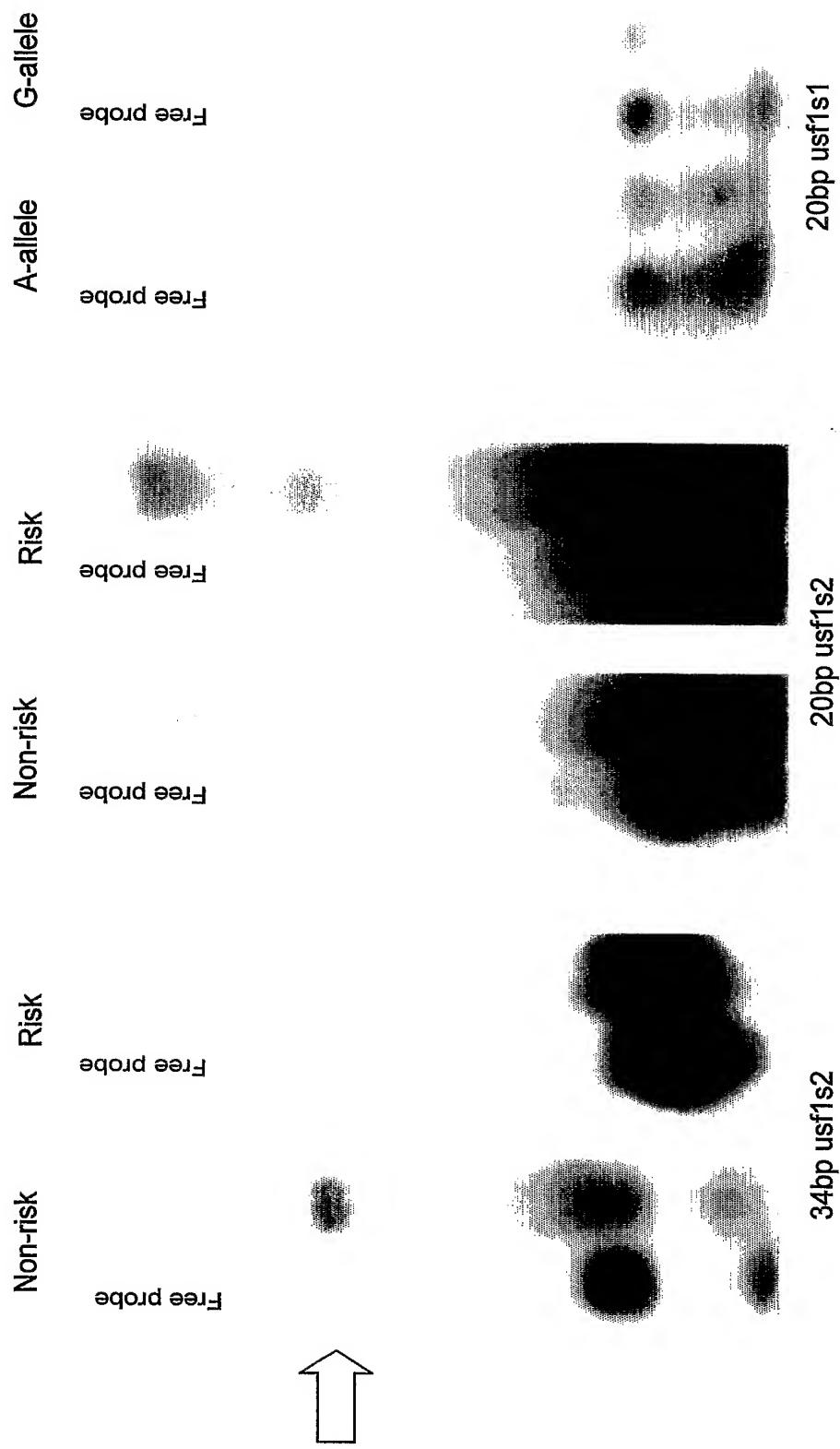
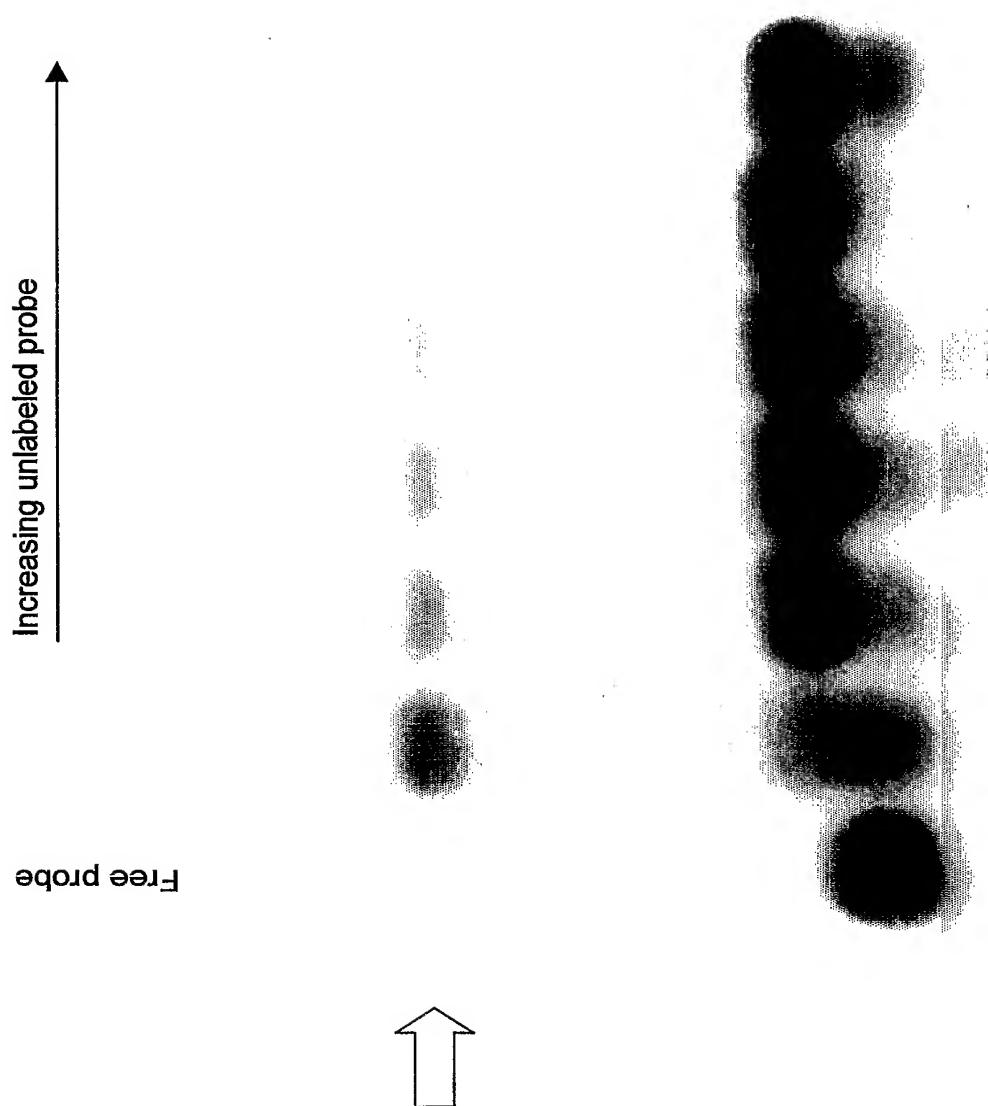


Figure 5a

Figure 5b



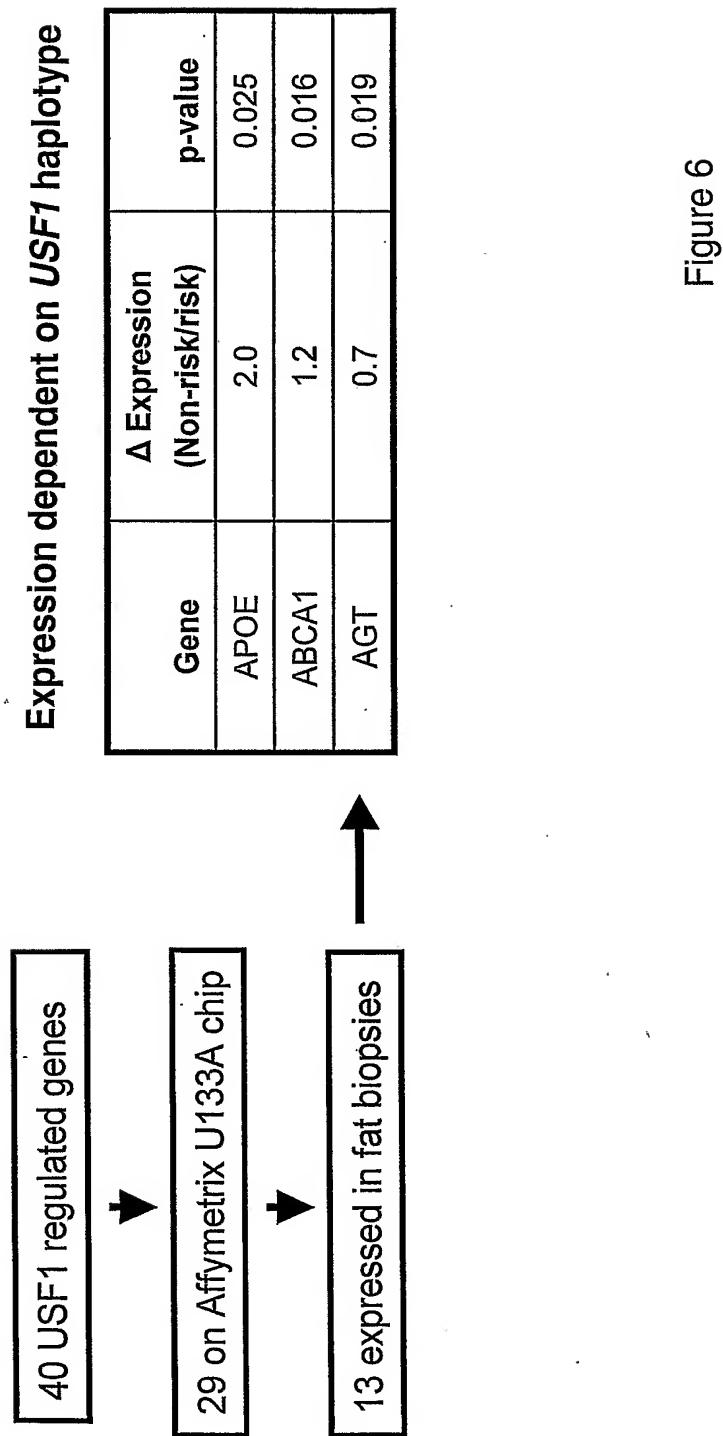


Figure 6

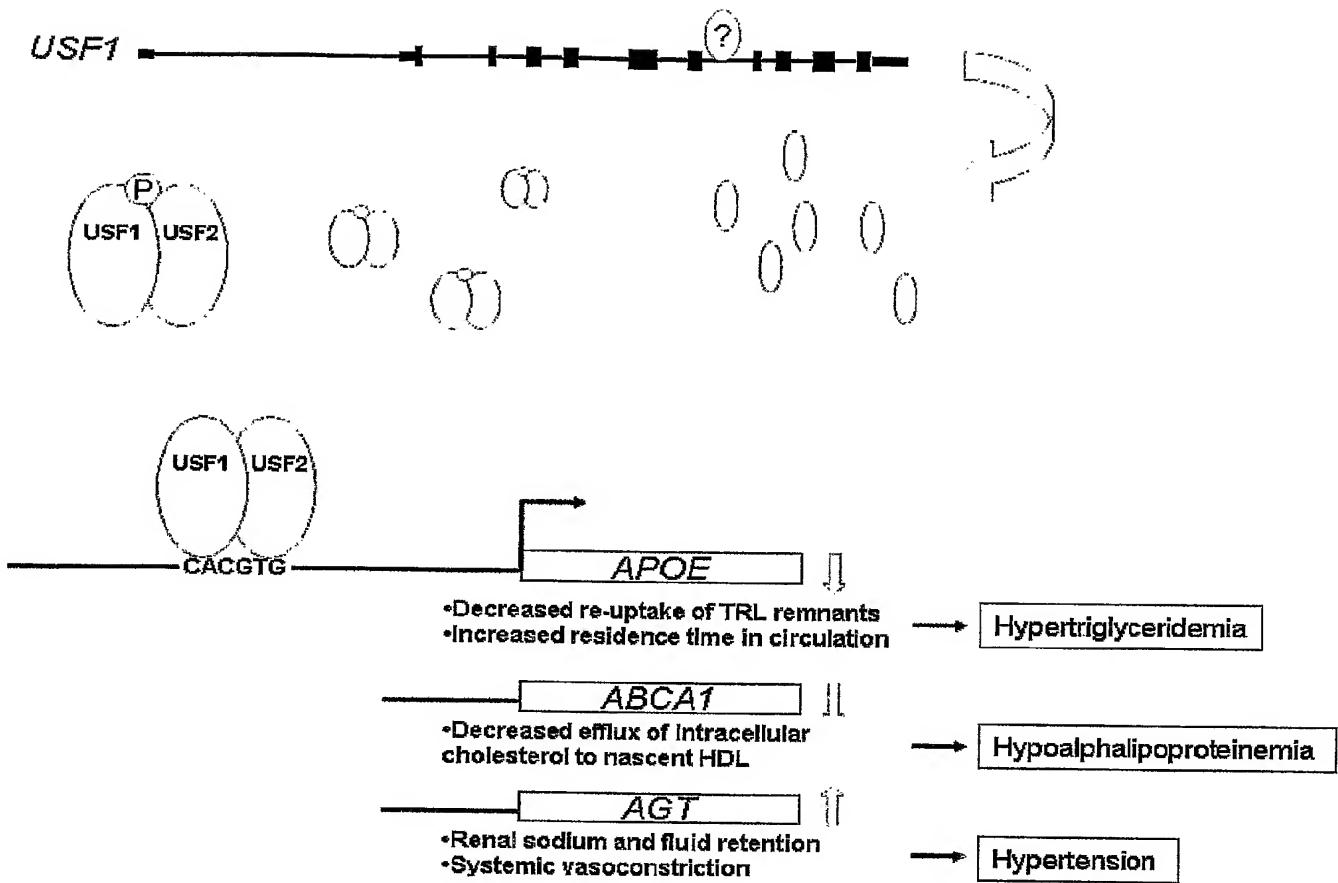


Figure 7